

What is claimed is:

- 5           1.       A humanized immunoglobulin heavy chain, or antigen binding fragment thereof, having binding specificity for CCR2 and comprising the amino acid sequence of SEQ ID NO:17 and the amino acid sequence of SEQ ID NO: 110 or a portion thereof.
- 10           2.       The humanized immunoglobulin heavy chain or antigen binding fragment thereof of claim 1, having a variable region and a constant region, wherein the variable region is encoded by the nucleic acid sequence of SEQ ID NO:108.
- 15           3.       The humanized immunoglobulin heavy chain or antigen binding fragment thereof of claim 1, having a variable region and a constant region, wherein the constant region is encoded by the nucleic acid sequence of SEQ ID NO:111 or a portion thereof.
- 20           4.       The humanized immunoglobulin heavy chain or antigen binding fragment thereof of claim 1, having a variable and a constant region, wherein the variable region is encoded by the nucleic acid sequence of SEQ ID NO:108 and the constant region is encoded by the nucleic acid sequence of SEQ ID NO:111 or a portion thereof.
- 25           5.       A humanized immunoglobulin light chain, or antigen binding fragment thereof, having binding specificity for CCR2 and comprising the amino acid sequence of SEQ ID NO:12 and the amino acid sequence of SEQ ID NO: 112.
6.       The humanized immunoglobulin light chain or antigen binding fragment thereof of claim 5, having a variable region and a constant region, wherein the variable region is encoded by the nucleic acid sequence of SEQ ID NO:109.

7. The humanized immunoglobulin light chain or antigen binding fragment thereof of claim 5, having a variable region and a constant region, wherein the constant region is encoded by the nucleic acid sequence of SEQ ID NO:113 or a portion thereof.

5 8. The humanized immunoglobulin light chain or antigen binding fragment thereof of claim 5, having a variable and a constant region, wherein the variable region is encoded by the nucleic acid sequence of SEQ ID NO:109 and the constant region is encoded by the nucleic acid sequence of SEQ ID NO:113 or a portion thereof.

10 9. A humanized immunoglobulin or antigen binding portion thereof having binding specificity for CCR2 and having a heavy chain and a light chain, wherein the heavy chain comprises an amino acid sequence of SEQ ID NO:17 and an amino acid sequence of SEQ ID NO:110 or a portion thereof, and the light chain comprises an amino acid sequence of SEQ ID NO:12.

15 10. The humanized immunoglobulin or antigen binding fragment thereof of claim 9, wherein the light chain further comprises the amino acid sequence of SEQ ID NO:112.

20 11. The humanized immunoglobulin or antigen binding fragment thereof of claim 10, wherein the humanized immunoglobulin comprises two heavy chains and two light chains.